

HOW TO USE YOUR *EXPRESSIONS 550S* SHOWER (SUMMARY)

1. Ensure the electricity and water are turned on to the unit.

2. Your shower can be turned on by pressing either **Button "A"**, **Button "B"** or **Button "C"**.

Button "A" - Starts shower on "High" power.

Button "B" - Starts shower on "Medium" power.

Button "C" - Starts shower on "Cold".

Once pressed, the water will flow, and a light will illuminate next to the button confirming that power selection has been made. It is recommended that you do not enter the water spray during this period, especially if the shower has just been used.

3. **"Temp Ready"** will illuminate when the water temperature has reached a steady state, and a digit will be displayed in **Window "F"**. "1" is the coolest, whilst "9" is the hottest. Digit "6" corresponds to a normal showering temperature.

If the water is not at your desired showering temperature, turn knob "E" a small amount until you reach the desired showering temperature.

Turn clockwise (follow blue arrows) for cooler and Turn anti-clockwise (follow red arrows) for warmer.

4. When you have finished showering, press **Button "D"** only.

5. **Water will continue to flow for up to 7 seconds before switching off, and the "Stop" light will flash.** This reduces the temperature of the water in the tank for the next user. The indicator lights will go out.

6. Wait for the water to stop, and then switch off the electricity supply at the ceiling switch or local isolator.

Notes

- *Wait 20 seconds for the temperature to stabilise after each adjustment, the "Temp Ready" light will illuminate when a steady water temperature has been achieved.*
- *The power indicator light indicates when the heaters are on and, if the shower has been recently used, can take up to 20 seconds to come on. During this time the water may go from very hot to cold before stabilising.*
- *The position of Knob "E" will be approximately the same each time the shower is used, varying only with incoming water temperature or pressure changes (e.g. you will only need to change from summer to winter).*
- *During normal operation, if an overheated water temperature is sensed then the heater will switch off and the "Overheat" light will illuminate. The water will continue to flow and cool down before the heater switches back on again.*
- *During normal operation, if low water pressure is sensed then the heater will switch off and the "Low Pressure" light will illuminate. The water will continue to flow before the heater switches back on again.*
- *The "Flow Level" indicators provide an indication of the actual flow rate at any given moment. Three indicators show maximum, half and minimum flow rates.*

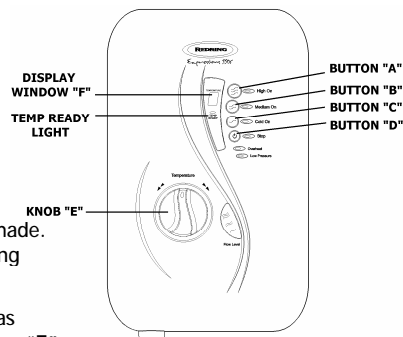
IMPORTANT WARNINGS!

DO NOT SWITCH THE APPLIANCE ON IF YOU SUSPECT IT OF BEING FROZEN.
WAIT UNTIL YOU ARE SURE IT HAS THAWED OUT.

DO NOT OPERATE THE APPLIANCE IF WATER DISCHARGES FROM THE PRESSURE RELIEF VALVE.
MAINTENANCE IS REQUIRED BEFORE THE APPLIANCE CAN BE SAFELY USED.

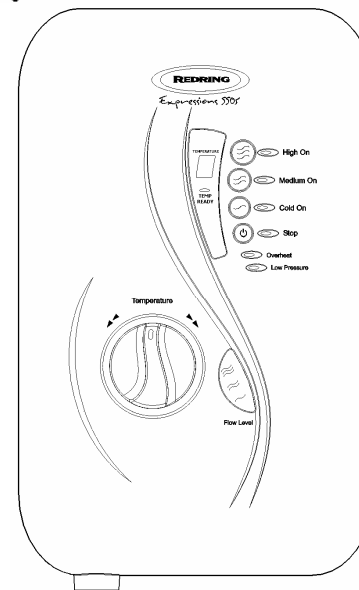
THIS APPLIANCE IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN AND THE INFIRM) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.



REDRING

Expressions 550s



REDRING EXPRESSIONS 550S

**SMART TECHNOLOGY
ELECTRIC SHOWER**

Installation and User Guide

IMPORTANT:

**This booklet should be left with the user after
installation and demonstration**

We offer a technical advisory service on the telephone: RING 0844 372 7766 (UK ONLY)

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INTRODUCTION

Thank you for purchasing a quality *Redring Expressions 550S Shower* manufactured in England. To enjoy your new shower at its best, please take time to read this manual thoroughly to familiarise yourself with all instructions, BEFORE beginning installation.

The *Redring Expressions 550S* is an electric shower incorporating our “*Smart Technology*” with “*Set and Forget*” and “*Smart Flow*” functions, a push-button start/stop power selection facility which starts the shower at a pre-set power and flow rate reducing the amount of adjustment required. Your shower is designed to stabilise temperature changes caused by water pressure fluctuations. These can result from toilets being flushed or taps being turned on and off.

When this happens your showering temperature will be held within a controlled band, provided that the minimum pressure required by the shower is maintained (see “Effect of Other Water Devices”).

If you experience any difficulty with the installation or operation of your new shower, then please refer to the “What to do if things go wrong” section in this manual before contacting us.

IMPORTANT SAFETY INFORMATION

1. Your shower has been designed for convenience, economy and safety of use, provided that it is installed, used and maintained in good working order and in accordance with our instructions and recommendations.
2. All wiring and installation must be supervised by a suitably qualified person.
3. THIS APPLIANCE MUST BE EARTHED.
4. The installation must be in accordance with the current edition of BS.7671 (*the “IEE Wiring Regulations”*) and “Part P” of the “*Building Regulations*” in force at the time of installation. Installations outside England and Wales must also conform to any local regulations in effect. This appliance is intended to be permanently connected to the fixed electrical wiring of the mains supply with its own dedicated supply.
5. This appliance must NOT be fitted where it may be subjected to freezing conditions
6. DO NOT switch the appliance on if you suspect it of being frozen. Wait until you are sure it has thawed out.
7. DO NOT fit any sort of tap or control on the appliance outlet. The appliance is designed to have an open outlet and should only be used with “Redring” recommended fittings.
8. The shower handset provided is designed to work with electric showers. Only use the manufacturers approved accessories with this shower.
9. Take care to avoid restricting the outlet of the pressure relief device. If water is discharged from the pressure relief device, maintenance will be required before the appliance can be safely used.
10. Isolate the mains electrical and water supply before removing the front cover of the appliance.

GUARANTEE AND CONTACT DETAILS

GUARANTEE

Terms and Conditions for UK & ROI (outside UK & ROI contact your local distributor)

We, Applied Energy Products Limited, guarantee this product for domestic use only, for the period of 36 months* from the date of purchase.

Within the guarantee period we will resolve, free of charge, any manufacturing defects in the product resulting from faulty workmanship or material on condition that:-

- a) The appliance has been correctly installed in accordance with our instructions and is being used on the supply circuit or voltage printed on the rating plate.
- b) The appliance has been used in accordance with these instructions and has not been tampered with or otherwise subject to misuse, neglect or accident.
- c) The appliance has not been taken apart, modified or repaired except by a person authorised by us.
- d) Evidence of the date of purchase in the form of an invoice or receipt will be required in order to qualify for an in-guarantee repair.
- e) The guarantee period for the products used in commercial applications will be limited to 12 months.
- f) For the service work to be undertaken free of charge, the work must be only undertaken by Applied Energy Products Limited, or our approved agents.
- g) Service under guarantee has no effect on the expiry date. The guarantee on any exchanged parts or product ends when the original guarantee period ends.

EXCLUSIONS

This guarantee DOES NOT cover damage or defects arising from poor or incorrect installation, improper use or lack of maintenance, including build-up of limescale. It is the responsibility of the installer to check that the installation parameters meet the requirements of the product, and any relevant regulations.

If we are called out to a fault, which is subsequently identified as being an installation fault, we will make a charge. It is important that the routine checks are completed before calling us out, as many issues can be simply diagnosed and resolved.

We make no guarantees as to response times for repairs. We will endeavour to achieve the most timely response possible but while we indicate an average response time, this should not be taken as a guarantee.

The guarantee applies to a repair or replacement (at our discretion) of the product subject to the conditions above, and DOES NOT cover compensation for the loss of the product or consequential loss of any kind.

The guarantee does not apply to the repair or replacement of pressure relief devices, sprayheads, hoses, accessories, isolating switches, electrical cable, fuses and/or circuit breakers.

This guarantee does not affect your statutory rights.

* Months 13 to 36 of your free guarantee are conditional on the registration of your product at the time of purchase. Product registration helps us to identify when products are installed, and in what location in order to facilitate a more efficient response to your requests.

Full details of terms and conditions are available on request from:-

REDRING

APPLIED ENERGY PRODUCTS LIMITED
MORLEY WAY, PETERBOROUGH PE2 9JJ

TEL: +44 (0) 844 372 7761

FAX: +44 (0) 844 372 7762

Website: www.redring.co.uk

HOW YOUR EXPRESSIONS 550S SHOWER WORKS

1. Water is heated instantaneously as it flows over the heating elements in the copper cylinder (Diagram 8).
2. The heaters are only switched on when sufficient water is flowing.
This is done automatically with a switch which works on water pressure and is indicated by the "High" or "Medium" light illuminating, depending on whether Button "A" or "B" has been pressed.
3. The water is turned on and off by the solenoid valve built into the shower.
This is switched on by pressing **Button "A", "B" or "C"**.
4. The flow of water is automatically held at the level set by the user even though the supply pressure may vary (see "Effect of Other Water Devices on Incoming Water Supply").
5. If the water supply falls below a set limit, the pressure switch will operate and switch off the power to the elements.
This is indicated by the "Low Pressure" light illuminating (see "Effect of Other Water Devices on Incoming Water Supply").
6. As a further safeguard, a thermal cut-out switches the power off if the water temperature climbs above the set limit and the "Overheat" light will illuminate.
This cut-out, which gives an audible click, may also operate due to residual heat when the shower is switched off. It will reset itself if water is run through the shower for 10 to 20 seconds, and the "Overheat" light will go out.
7. The pressure relief device is to safeguard against abnormal pressure conditions, and provides a level of appliance protection should an excessive build of pressure occur within the shower.

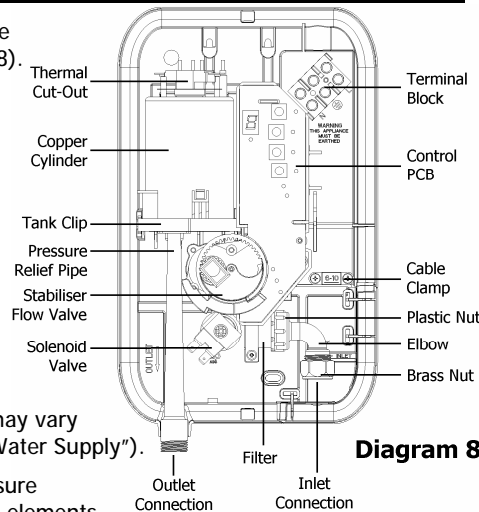


Diagram 8

Effect of Seasonal Incoming Water Temperature Changes

The required water temperature is achieved by adjusting the rate of water flow. Diagram 9 shows the principle involved in relating temperature rise to flow rate. The higher the water rate the lower the temperature and vice versa. The temperature of the water supplied from the mains can vary considerably throughout the year from 5 to 20°C.

This means that in the winter, flow rate will be less than in the summer to achieve the same outlet temperature.

In summer the "Medium" power setting may give adequate hot water.

In some winter conditions, it may be necessary to select the inner or outer spray pattern only of your shower handset. This will ensure correct operation of the shower with a slightly lower flow rate.

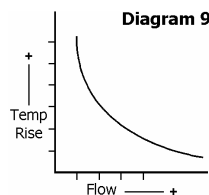


Diagram 9

Effect of Other Water Devices on Incoming Water Supply

Your shower is designed to stabilise temperature changes caused by water pressure fluctuations. These can result from toilets being flushed or taps being turned on and off. When this happens your showering temperature will be held within a controlled band, provided that the minimum pressure required by the shower is maintained.

Your shower requires a minimum running pressure of 69kPa (0.7 bar, 10 psi).

At pressures above 69kPa (0.7 bar, 10 psi) it will minimise temperature fluctuations as detailed above. If the water pressure falls below 69kPa (0.7 bar, 10 psi) it is likely that the pressure switch will turn off the power to the heating elements, resulting in a cold shower.

This will be indicated by the "Low Pressure" light illuminating.

HOW TO INSTALL YOUR EXPRESSIONS 550S SHOWER

WARNING: ALL WIRING AND INSTALLATION MUST BE SUPERVISED BY A SUITABLY QUALIFIED PERSON.

WARNING: DO NOT INSTALL THIS SHOWER WHERE IT MAY BE SUBJECTED TO FREEZING CONDITIONS

We recommend that the installation is done in the following sequence.

- a. Fixing the shower to the wall b. Plumbing c. Electrical connections

a. FIXING THE SHOWER TO THE WALL

1. Position the riser rail at a convenient height for majority of users as detailed in Diagram 1 and mark its position (also see separate accessories fitting instructions).
2. Position the heater so that the top of the unit is horizontal and level with, or a maximum of 0.6 metres (2ft) below the top of the riser rail. Choose a flat piece of wall to avoid the possibility of distorting the backplate thus making the front cover a poor fit.
3. Adjust the position to get the most convenient arrangement taking the following into account.
 - The heater must not be mounted in the direct spray from the handset.
 - The handset must not be able to come into contact with used water in the cubicle, bath or basin. If it can, even after the hose has been retained by the retaining ring (see separate accessories fitting instructions sheet), a vacuum breaker must be fitted.
4. Fix the riser rail with screws provided (see separate instructions supplied with accessories).

Diagram 1

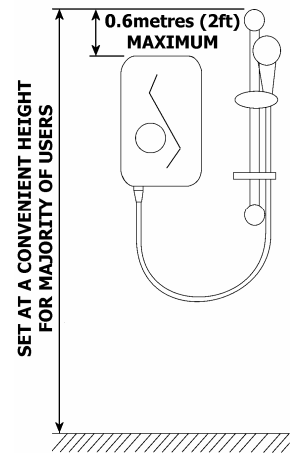
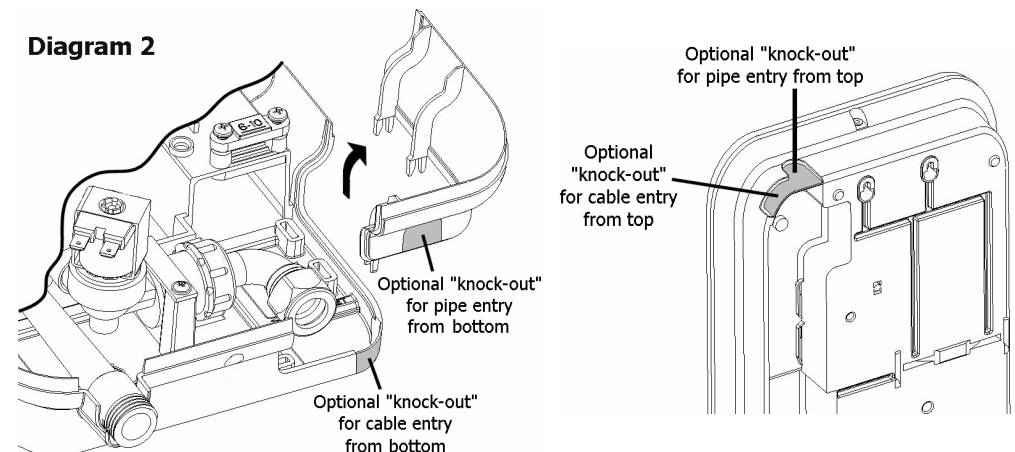


Diagram 2



5. Decide the position of the electrical cable into the unit. If top or bottom entry is chosen (according to Diagram 7 on page 9), cut away the walls in the backplate as shown in Diagram 2.
6. Decide the position of entry of the cold water pipe into the unit.
If top, cut away the backplate.
If rear, please read the section on plumbing.
If bottom, remove the front cover (complete with knobs) and cut away the detachable corner section as shown.

- If you have not yet done so, remove the front cover assembly by undoing the retaining screws at the top and bottom of the unit and lifting the cover off.

Your shower is provided with 2 fixing positions in the backplate (see Diagram 7 on page 9). The top-fixing hole is a "key-hole" slot (another key-hole is provided for alternate fixing), and should be marked and drilled first.

Tighten top screw with head protruding about 10mm from the wall and hook the backplate over the screw head. This allows for correct and accurate alignment of your shower before marking and fixing the bottom position.

You may not wish to tighten up both screws at this stage as the holes are elongated to allow for adjustment after other connections have taken place.

b. PLUMBING

WARNING: ENSURE THAT THE MAINS WATER SUPPLY MEETS THE REQUIREMENTS BELOW BEFORE CONTINUING WITH INSTALLATION.

The heater must be connected to the mains cold water supply. This must have a minimum running pressure of 69kPa (0.7 bar, 10 psi) and a maximum pressure of 690kPa (7.0 bar, 100 psi).

WARNING: BEFORE CONNECTING THE PIPE WORK TO THE SHOWER, ENSURE THAT THE PIPE WORK IS FULLY FLUSHED OUT.

- Unscrew the "Red Cap" from the shower outlet pipe and discard it in a suitable manner. This has been used to seal the shower during transit, and is no longer required.
- It is recommended that a WRAS (Water Regulations Advisory Scheme) listed isolating valve is fitted to the incoming mains cold water before the shower unit. This will allow the unit to be serviced or exchanged without having to turn off the water at the water stop valve.
- The heater can be fed from a header tank provided this has a minimum head of 7 metres (23ft).
- Ø15mm copper or stainless steel pipe should be used. To avoid cross threading, DO NOT REMOVE the nut from the elbow when positioning the pipe. If top entry is required, turn the elbow 180° into the required position. If rear entry is required, treat as top entry with an additional "Yorkshire" elbow (soldered type) for fitting into the rear channel. In multiple installations, correct pipe work sizes should be calculated to maintain adequate flow to each shower.
- It is permissible to use a WRAS (Water Regulations Advisory Scheme) approved sealant sparingly whilst avoiding excess finding its way into the shower operating parts.
- With isolating valve connected, flush the pipe work through to remove any particles etc, before making the final connection to the shower. Blockage in the water ways (particularly the handset and solenoid valve) will prevent the heater working properly. *Note: You may be charged for a service call if it is due to incorrect installation.*
- The shower is designed to have an open outlet and should only be used with "Redring" recommended fittings. Do not connect the handset until after the shower front cover and corner section are fitted.

WARNING: DO NOT FIT A TAP ON THE SHOWER OUTLET.

WARNING: TAKE CARE TO AVOID RESTRICTING THE OUTLET OF THE PRESSURE RELIEF DEVICE

WHAT TO DO IF THINGS GO WRONG (2)

PROFESSIONAL SERVICE

If the previous "Self Help" checks fail to restore the performance, you should seek professional help.

The person who installed the shower is probably the best one to repair it and is certainly the person to contact if you have had a problem in the guarantee period.

The following additional checklist is provided for the benefit of the qualified service person.

WARNING: SWITCH OFF THE ELECTRICITY AT THE LOCAL ISOLATOR BEFORE REMOVING THE COVER TO MAKE CHECKS

Water too HOT	Water flow restricted by blockage in filter of solenoid valve. Switch off water, loosen inlet connection to solenoid, remove filter in solenoid with long nosed pliers and flush clean.
Water too COLD	Check circuit through thermal cut-out. Check circuit through microswitches on the pressure switch. Check each element circuit. Check tightness of electrical connections.
No control over water flow	Check Drive Gite is correctly engaged into Control Knob (see Diagram 5) Undo headworks of stabiliser valve. Check stabiliser is in place and remove any debris in valve.
Water discharges from pressure relief valve	Check for cause of high pressure and remove it. Blockage on outlet e.g. blocked shower handset. Replace the pressure relief disc (not covered by guarantee).
Water does not flow when button "A", "B" or "C" is pressed.	Check circuit through solenoid coil. If defective then replace. Check circuit through microswitches. If defective then replace. Power supply not reaching shower.

REDRING AFTER SALES SERVICE

We offer a technical advisory service on the telephone to installers and other customers with problems in the field.

RING 0844 372 7766 (UK ONLY)

RING YOUR LOCAL DEALER (Export Variants)

Some spare parts (see later section) can be supplied against Credit or Debit cards.

RING 0844 372 7750 (UK ONLY)

Remember to quote the exact type of shower, as written on the front of the shower and on this leaflet.

The model and serial number are located on the bottom face of the shower.

Make a note of those numbers here, and be sure to quote them if you call for advice.

Model Number: 53-67 _____

Serial Number: _____

Note: You may be charged for a service call if you do not have the serial number.

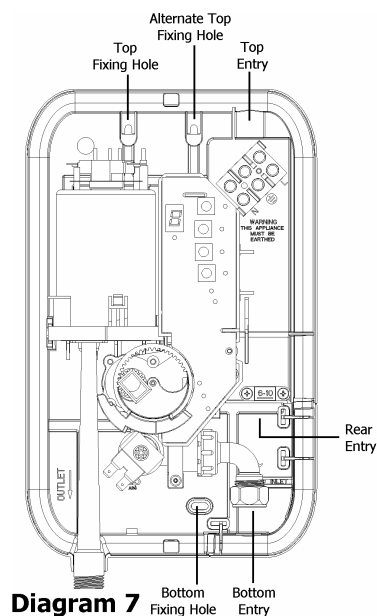


Diagram 7

WHAT TO DO IF THINGS GO WRONG (1)

SELF HELP

If the shower is unsatisfactory, make the following checks before calling out the contractor.
Any one of these adjustments could restore the performance.

The shower cycles from HOT to COLD	The shower temperature is set too hot causing the thermal cut-out (safety device) to operate. Turn Knob "E" clockwise (direction of the "blue arrows") to increase water flow. Slowly increase the water temperature by turning Knob "E" anti-clockwise in the direction of the "red arrows" until a comfortable showering temperature has been reached. You MUST WAIT approximately 20 seconds for each adjustment to affect the water temperature. "Medium" setting may need to be selected.
Water too HOT	Increase water flow by adjusting Knob "E" clockwise (direction of the "blue arrows"). "Medium" setting may need to be selected. Increase pressure to water supply e.g. fully open service valve or stop cock. Check hose is not kinked restricting the water flow. Clean shower handset.
Water too COLD	Decrease water flow by adjusting Knob "E" anti-clockwise (direction of the "red arrows"). "High" setting may need to be selected. Select inner or outer only handset spray pattern.
Spray pattern poor	Clean the shower handset.
Water takes longer to heat up	Thermal cut-out has operated after previous use ("Overheat" light is on) (automatically resets when unit cools down) "High" setting may need to be selected.
Water goes cold while using shower	Check "Low Pressure" light is not on. Check water pressure has not fallen so far as to let pressure switch cut out, e.g. Another tap drawing water off. Raise position of shower handset.
Water continues to flow when "Stop" button pressed	This is normal. The shower includes a shutdown feature that means the water will continue to flow for up to 7 seconds after "Stop" has been pressed to stop the shower.
Broken parts	Please contact our spares department on 0844 372 7750 (UK only). Fitting instructions are provided with most spares

ADDITIONAL ACCESSORIES

COMMON SPARE PARTS

Please Note:- The fitting of Spare Parts must be supervised by a suitably qualified person.

White 2 metre Shower Hose	Cat No. 83792578	Front Cover	Cat No. 93597865
Chrome 1.25 metre Shower Hose	Cat No. 93797641	Tank-Base Assembly	Cat No. 93597850
Chrome Standard Accessories	Cat No. 83595317	Solenoid Valve	Cat No. 93590722
Chrome Multi-Mode Accessories	Cat No. 83595318	Cylinder "O"-Ring	Cat No. 93795809
Chrome Premium Accessories	Cat No. 83595319	Tank Clip	Cat No. 93590715
Curtain and Rail Pack	Cat No. 83792812	PRV Washer	Cat No. 93795817
Curtain and Rail Pack with Non-Slip Mat	Cat No. 83792811	Thermal Cut-Out 50/88°C	Cat No. 93597871
WRAS Water Isolating Valve	Cat No. 93792452	PCB Assembly	Cat No. 93597876
		Handset	Cat No. 93597866
		Height Adjuster	Cat No. 93597867

Additional accessories and spare parts can be supplied against any Credit or Debit cards from Redring Sales Hotline 0844 372 7750

c) ELECTRICAL

WARNING: THIS SHOWER MUST BE EARTHED.

The electrical installation must be in accordance with the current BS.7671 (IEE Wiring Regulations) and "Part P" of the Building Regulations and/or local regulations

- The SHOWER is designed for a single phase AC electrical supply.
Please check the rating plate on the unit to see what details apply to your unit.
AS A GUIDE ONLY (Only applies if external earth impedance is less than 0.35 Ohms)*

Rating	Cable Sizes	Fuse / MCB	Cable Length
7.2 / 6.6kW 240 / 230V	4.0mm ² 6.0mm ²	32A Type B MCB	21m Max. 35m Max.
	6.0mm ² 10.0mm ²	40A Type B MCB	27m Max. 45m Max.
8.5 / 7.8kW 240 / 230V	6.0mm ² 10.0mm ²	40A Type B MCB	27m Max. 45m Max.
	6.0mm ² 10.0mm ²	45A BS.1361 fuse	12m Max. * 21m Max. *
9.5 / 8.7kW 240 / 230V	6.0mm ² 10.0mm ²	40A Type B MCB	27m Max. 45m Max.
	6.0mm ² 10.0mm ²	45A BS.1361 fuse	12m Max. * 21m Max. *
10.5 / 9.6kW 240 / 230V	10.0mm ²	45A BS.1361 fuse	12m Max. *

Remember to upgrade the cable if it runs in thermal insulation in a loft, or for a longer distance.

- A means for disconnection in all poles must be incorporated in the fixed wiring in accordance with the wiring rules.
We recommend a ceiling switch mounted in a convenient position.
- Cut back cable as in Diagram 3. Connect cable to terminal block making sure that all the retaining screws are **VERY TIGHT** and that no cable insulation is trapped under the screws.

WARNING: FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN FAILURE OF THE TERMINAL BLOCK

- Re-Fit the corner section back into the backplate.

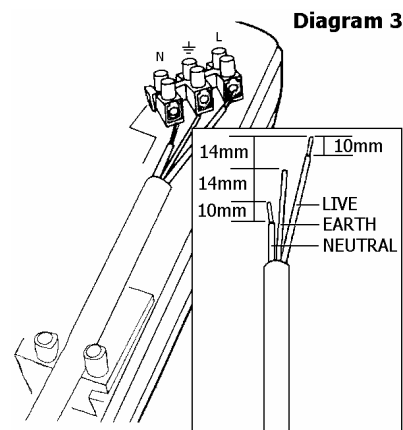


Diagram 3

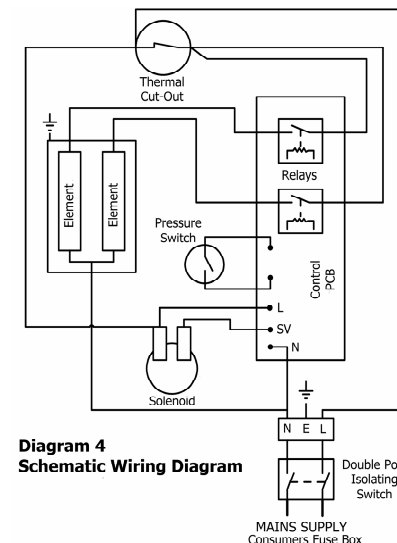


Diagram 4
Schematic Wiring Diagram

5. Re-Fit the front cover (see Diagram 5),
 - a. Ensure Knob "E" is aligned at the "6 o'clock" position.
 - b. In the main body of the shower, turn the "Drive Gite" fully clockwise until it is at the position shown. *Please note that this instruction should be used if the "Drive Gite" becomes accidentally dislodged, whilst attention should also be paid to the position of the "Flow Mask alignment mark".*
 - c. Fit the front cover of the shower to the main body.
Ensuring that the knobs correctly engaged to their mating component.
 - d. Check that Knob "E" has been correctly aligned by turning anti-clockwise and ensuring that knob turns approximately 1 full turn and when turned back fully clockwise, returns to the "6 o'clock" position.
 - e. Secure by replacing the top and bottom fastening screws.

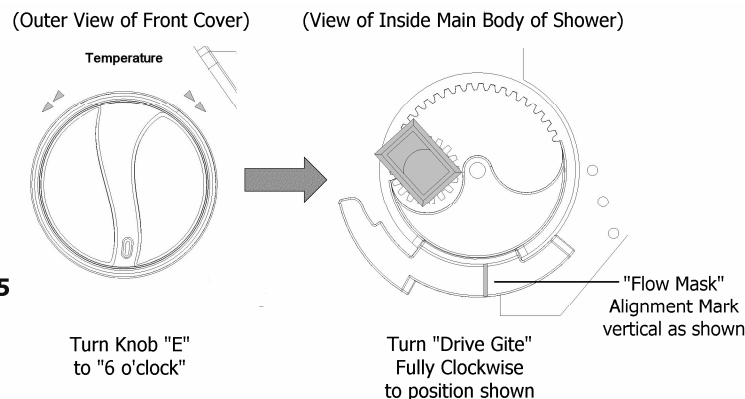


Diagram 5

6. Fit the shower hose, and operate the shower first without the handset to flush out particles, fit the handset and then operate the shower as on page 7 or 12 and check:
 - a. That the water gets to a satisfactory temperature.
 - b. Water flow can be adjusted by Knob "E".
 - c. Power selection operates in all 3 levels, giving a change in water temperature and that the power indicator lights function correctly.
 - d. Check again for leaks
 - e. That the holes in the shower handset are not blocked

7. DEMONSTRATE OPERATION TO USERS

HOW TO MAINTAIN YOUR EXPRESSIONS 550S SHOWER

It is recommended that the shower unit and hose etc. be cleaned using a soft cloth and that the use of abrasive or solvent based cleaning fluid be avoided, especially on any plated finishes. We recommend that before any cleaning, the isolating switch be turned off, thus avoiding accidentally switching on the shower.

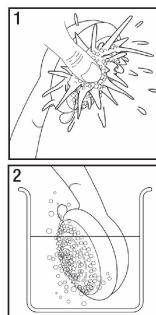
WARNING: YOU MUST REGULARLY INSPECT THE SHOWER HOSE FOR WEAR AND DAMAGE. REPLACE IF NECESSARY, OR EVERY TWO YEARS, WITH OUR APPROVED PART.

WARNING: IN ORDER TO MAINTAIN THE PERFORMANCE OF YOUR SHOWER, YOU MUST CLEAN THE SHOWER HANDSET REGULARLY

All water contains particles of lime-scale, which build up in the shower handset and unit reducing the performance.

It is therefore important to clean the shower handset by simply rubbing the rubber nozzles, or soaking in a proprietary lime-scale remover and rinsing thoroughly before use.

NOTE: After use it is normal for some water to drip from the shower handset for a few moments. This inhibits scale build-up over prolonged use.



HOW TO USE YOUR EXPRESSIONS 550S SHOWER (DETAILED)

1. Ensure the electricity and water are turned on to the unit.
2. Your shower can be turned on by pressing either Button "A", Button "B" or Button "C" (see Diagram 6).
 Button "A" - Starts shower on "High" power.
 Button "B" - Starts shower on "Medium" power.
 Button "C" - Starts shower on "Cold".

Once pressed, a light will illuminate next to the button confirming that power selection has been made.

Knob "E" controls the temperature of the water, and For this example turn Knob "E" to "12 o'clock".

3. Press Button "A" and the water will flow. A digit will be displayed in Window "F" relating to the showering temperature. "1" is the coolest, whilst "9" is the hottest. As a guide digit "6" corresponds to a normal showering temperature.
4. Allow about 20 seconds for the temperature of the water to stabilise, when the water has reached a steady temperature the "Temp Ready" light will illuminate. It is recommended that you do not wholly enter the water spray during this period, especially if the shower has just been used.

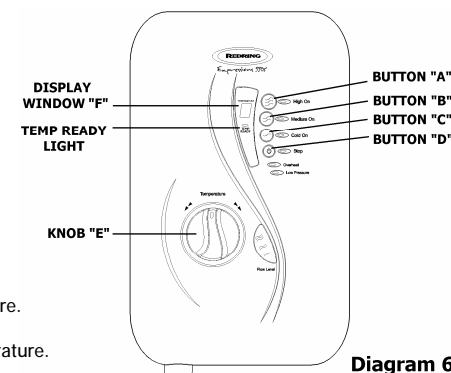


Diagram 6

IF WATER IS TOO COLD

Turn Knob "E" anti-clockwise in the direction of the "red arrows" to "11 o'clock".

The "Temp Ready" light may go out.

Wait 20 seconds after each adjustment for the water temperature to stabilise, and the "Temp Ready" light to come back on.

The number in Window "F" should increase by one digit to reflect the new water temperature if not re-adjust Knob "E" in smaller increments and continue turning anti-clockwise until you get the water temperature of your liking.

If after turning fully anti-clockwise water is still too cold, set shower pattern on shower handset to outer or inner pattern only.

IF WATER IS TOO HOT

Turn Knob "E" clockwise in the direction of the "blue arrows" to "1 o'clock".

The "Temp Ready" light may go out.

Wait 20 seconds after each adjustment for the water temperature to stabilise, and the "Temp Ready" light to come back on.

The number in Window "F" should decrease by one digit to reflect the new water temperature if not re-adjust Knob "E" in smaller increments and continue turning clockwise until you get the water temperature of your liking.

If after turning fully clockwise, water is still too hot, press Button "B" (medium) and re-adjust Knob "E" to give desired temperature.

Water flow will be reduced on this setting.

5. Once a temperature setting to your liking has been achieved, Knob "E" will rarely need adjusting. You must however take into account required adjustments for variations of incoming mains water temperature between summer and winter (see "Effect of Seasonal Incoming Water Temperature Changes" page 10).
6. When you have finished showering, press button "D" only. Water will continue to flow for up to 7 seconds before switching off and the "Stop" light will flash. This reduces the temperature of the water in the tank for the next user. Wait for the water to stop, then switch off the electricity at the ceiling switch or local isolator.
7. Turning the shower on by pressing Button "B" reduces the power used by the shower giving a cooler shower or the option of reduced water flow. This option is mainly for summer usage and if this is used then Knob "E" must be re-adjusted.
8. Turning the shower on by pressing Button "C" will supply water without any heating. Please note that the "Temp Ready" light will NOT illuminate on this setting.
9. The "Flow Level" indicators provide an indication of the actual flow rate at any given moment. Three indicators show maximum, half and minimum flow rates.
10. Your shower is designed to stabilise temperature changes caused by water pressure fluctuations (see "Effect of Other Water Devices on Incoming Water Supply" see page 10).

WARNING: DO NOT SWITCH THE SHOWER ON IF YOU SUSPECT IT OF BEING FROZEN. WAIT UNTIL YOU ARE SURE IT HAS THAWED OUT.

WARNING: DO NOT OPERATE THE SHOWER IF WATER IS DISCHARGED FROM THE PRESSURE RELIEF VALVE. MAINTENANCE IS REQUIRED BEFORE THE SHOWER CAN BE SAFELY USED.

WARNING: CONSIDERATION SHOULD BE GIVEN TO SUPERVISING THE YOUNG, ELDERLY AND THE INFIRM WHILST THEY USE THIS SHOWER.